

Wanthane® WHT-1565IC

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Extrusion and injection molding grade
FEATURES: Free of plasticizer, excellent abrasion and slip resistance, low temperature flexibility, good processability
Applications: Electronic Parts, rigid / flexible composite systems, tools, shoes, profiles, etc

General Information			
Features	Flexibility at low temperatures		
	Workability, good		
	Good wear resistance		
Uses	Electrical/Electronic Applications		
	Power/other tools		
	Footwear		
	Profile		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	50.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	3.00	MPa	ASTM D412
300% strain	6.00	MPa	ASTM D412
Tensile Strength (Break)	25.0	MPa	ASTM D412
Tensile Elongation (Break)	750	%	ASTM D412
Tear Strength	70.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	22	%	ASTM D395
70°C, 22 hr	55	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-40.0	°C	ASTM D3418
Vicat Softening Temperature	63.0	°C	ASTM D1525

Injection	Nominal Value	Unit
Drying Temperature	90 - 100	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	170	°C
Middle Temperature	175	°C
Front Temperature	180	°C
Nozzle Temperature	185	°C
Mold Temperature	23	°C
Screw L/D Ratio	25.0:1.0 to 30.0:1.0	
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0	

Extrusion	Nominal Value	Unit
Drying Temperature	90 - 100	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.030	%
Cylinder Zone 1 Temp.	165	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	175	°C
Cylinder Zone 4 Temp.	180	°C
Adapter Temperature	185	°C
Die Temperature	180	°C

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